

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-029235**Date Inspected:** 08-Mar-2013**Project Name:** SAS Superstructure**OSM Arrival Time:** 1030**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1730**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Job Site**CWI Name:** As noted below**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** SAS OBG**Summary of Items Observed:**

Quality Assurance Inspector (QA) Douglas Frey was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

This QA Inspector observed at random intervals, ABF welder Terry McCormick #8494 performing Shielded Metal Arc Welding (SMAW) at the hinge "A" expansion joint east in the 2G horizontal positions on the expansion joint support plates [01] and in accordance with ABF-WPS-D1.5-F1200A. QC monitored the welding and the parameters as they applied to the above mention WPS. This QA Inspector made subsequent observations to monitor quality and noted that the work at this location was in progress and appeared to be in general conformance with the contract documents.

ABF welder Wai Kit Lai #2953 was observed performing the Shielded Metal Arc Welding (SMAW) process in the 4G overhead position on the Skyway East lifting lug hole (SLLH) #7. The welder was observed utilizing WPS ABF-D1.5-1030-Revision 1 for SMAW. The welder was observed preheating the welds prior to welding. Other welding parameters as inspected by the QC Inspector were recorded as 136 amperes and appeared to be in compliance with the WPS noted above. The QA Inspector made subsequent observations throughout the shift to monitor quality and noted that the work was in progress and appeared to be in general conformance with the contract documents. CCO184 and RFI-003132R00 were referenced during the observations.

This QA Inspector randomly observed ABF welder Mike Jimenez #4671 perform 2G horizontal SMAW on the diverter bars located at 13W PP120 to PP124.5 on the west OBG. The welder was observed utilizing WPS

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ABF-D1.5-1030-Revision 1 for SMAW. The welder was observed preheating the welds prior to welding. Other welding parameters as inspected by the QC Inspector were recorded as 136 amperes and appeared to be in compliance with the WPS noted above. The QA Inspector made subsequent observations throughout the shift to monitor quality and noted that the work was in progress and appeared to be in general conformance with the contract documents.

This QA observed QC Inspector Salvador Merino and William Sherwood performing welding parameter checks such as voltage, amps, electrodes and preheats throughout the day. Non-Destructive Testing methods utilized by the QC Inspectors were Visual Testing (VT), Magnetic Particle Testing (MPT) and Ultrasonic Testing Shear Wave (UTSW). QC Inspectors were observed performing inspection per applicable code and or contract criteria. Unless otherwise noted, all work observed on this date appeared to generally comply with the contract documents.

### Summary of Conversations:

Conversations were relevant to work performed.



### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Gary Thomas 916-764-6027 , who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Frey,Doug	Quality Assurance Inspector
<b>Reviewed By:</b>	Reyes,Danny	QA Reviewer

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